

LPO 14 SERIES, Model 7

14 pin Dual-in-Line Package

DESCRIPTION

The Euroquartz LPO14 series of low power consumption oscillators are ideal parts providing the time base signals for real-time clocks. The oscillators have very low current consumption (as low as 14mA) and are ideal for battery operated devices such as data logging and portable test equipment.

FEATURES

- Very low current consumption from 14mA
- Industry-standard 14 pin DIL package
- Wide frequency range, from 1Hz to 160kHz
- Supply Voltage from 2.0 Volts to 15.0 Volts
- Standard CMOS output

SPECIFICATION

Duty Cycle:

Ageing:

Start-up Time:

Storage Temperature:

+3.3 VDC +5.0VDC Input Voltage: +2.0 Volts to +7.0 Volts is available Frequency Range: 20kHz to 160kHz (Limited to standard frequencies.) CMOS **Output Logic: Output Voltage** CMOS HIGH'1': 2.97V min. 4.0V min. CMOS LOW '0': 0.33V max. 0.4V max. **Calibration Tolerance:** see table opposite Frequency Stability: see curve opposite **Current Consumption:** 14mA typical 18mA typical Rise/Fall Times: 25ns typical, 45ns maximum (Measured from 10%Vdd to 90%Vdd) Start-up Voltage: Pin 1 Option, Tristate: Output is high impedance when LOW

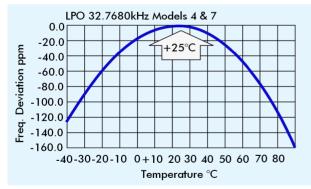
450ms maximum

±5ppm maximum at 25°C

-50° to +100°C

50% ± 5% typical, 50% ± 10% maximum

FREQUENCY DEVIATION vs TEMPERATURE



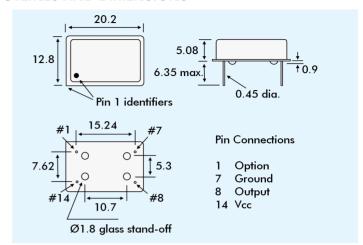
kHz RANGE OSCILLATORS mA CURRENT CONSUMPTION

If you require oscillators in the kHz frequency range with mA current consumption please see our standard CMOS oscillator range.

STOCK HOLDING AND CUSTOM PARTS

Euroquartz maintain a large stock of standard frequency and specification oscillators. If you require custom frequencies and/or specification oscillators, Euroquartz will manufacture in-house with short delivery

OUTLINES AND DIMENSIONS



CURRENT CONSUMPTION vs SUPPLY VOLTAGE



CALIBRATION TOLERANCE

Euroquartz Part Number Suffix	Cailbration Tolerance at 25°C
Р	±10ppm
Α	±25ppm
В	±50ppm
С	±100ppm

PART NUMBER GENERATION

LPO oscillators part numbers are derived as follows: FXAMPLF:

